# Educational Course Attendance Verification

Safety & Buildings Division
201 W Washington Avenue
P O Box 7082
Madison WI 53707-7082
Phone: (608) 261-8500
TTY: (608) 264-8777

Personal information you provide may be used for secondary purposes [Privacy Law, s. 15.04(1)(m)].

**Instructions:** Print all information clearly. Press hard so that the information is transferred to all three copies. Information contained in shaded and unshaded areas must be filled in by Attendee. Information contained in the shaded areas will be provided to you by the course instructor. The Course Password will not be given out until the end of the course. The Course Password is evidence that the Attendee was present for the entire course or successfully completed the course. Return the white and yellow copies (marked DIVISION and INSTRUCTOR) to the instructor. Retain the pink copy marked ATTENDEE. Retain verification forms for at least three years. Fill out all fields before turning in so hours attended are correctly credited to your credential. Instructors will mail the white copy (DIVISION COPY) to address above.

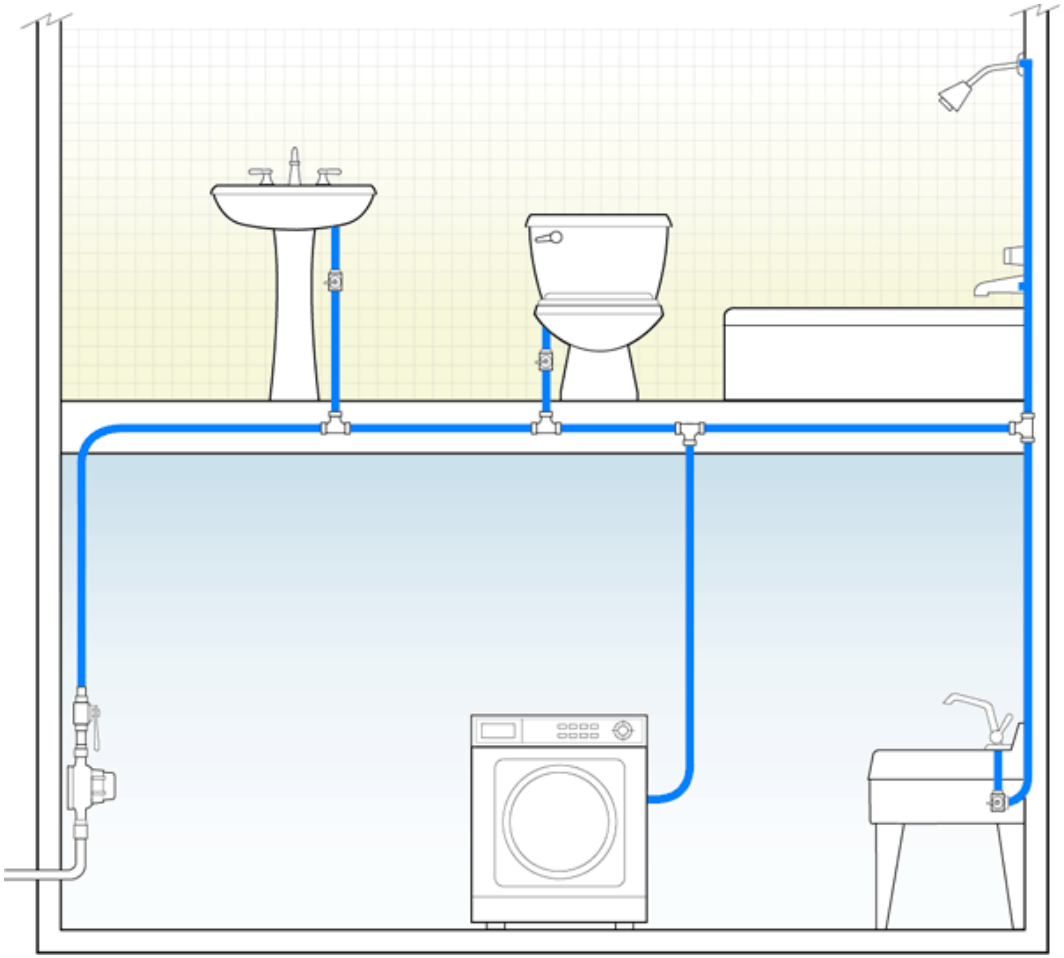
| Attendee's Name (Last, First, Middle Initial): | Course Title/Name: | | | |
|---|---|---|---|---|
| Name | UDC CROSS CONNECTION CONTROL 2017 | | | |
| Credential Number: Credential Number<br>**Cannot process without this information** | City Course was Held in: | Course Password: | Course ID #: | Course Date (mo/dy/yr): |
| | Oshkosh | ALREADY | 19141 | 09/28/17 |
| Street Address or PO Box: Address | List the Name of Each Credential Held by Attendee | | | |
| City, State and Zip Code + 4: City, State, Zip | | | | |
| Daytime Telephone Number (include area code): Telephone Number | | | | |
| Attendee's Signature: **Your Signature** | DECLARATION: I believe that the information given on this form is true. I realize that a misstatement could result in disciplinary action under Comm 5.10, Wis. Adm. Code. | | | |

Credit hours obtained at least 90 days prior to the expiration date of a credential apply as credit to the current credential period. Credit hours obtained less than 90 days to the expiration date of a credential are applied as credit to the next credential period.

SBD-9142 (R.2/03)

White-Division, Yellow-Instructor, Pink-Attendee

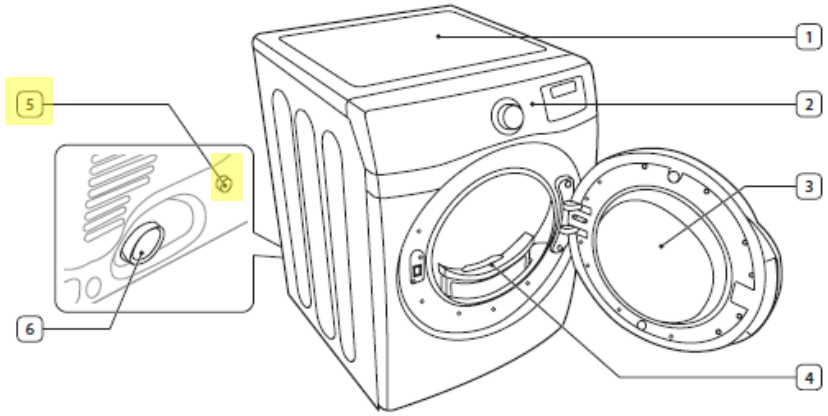
# RESIDENTIAL CROSS CONNECTION CONTROL 2017



# STEAM DRYERS

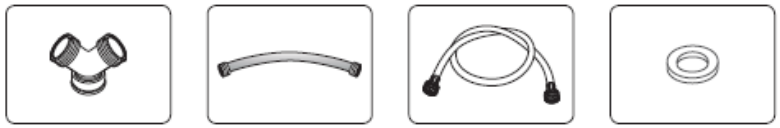
# STEAM DRYERS

## What's included




| | | | |
|---|---|---|---|
| 1 | Top cover | 4 | Filter |
| 2 | Control panel | 5 | Water Inlet (Steam model only) |
| 3 | Door | 6 | Duct Exhaust |

## Accessories (Steam model only)



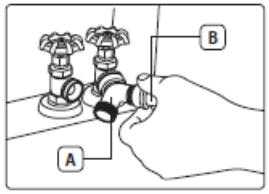
"Y"-connector | Short inlet hose | Long inlet hose | Rubber Washer

# STEAM DRYERS

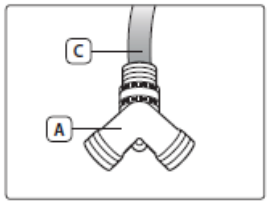
## Connecting the inlet hose (Steam model only)

The dryer must be connected to the cold water faucet using the new inlet hoses. Do not use old hoses.

1. Turn the cold water faucet off.
2. Attach the brass female end of the **Y connector (A)** to the cold water faucet.
3. Attach the straight end of **long hose (B)** to the Y connector.
4. Using pliers, tighten the coupling with an additional two-thirds turn.

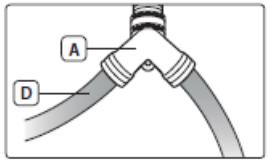



If the Y connector cannot be attached directly to the cold water faucet, the short hose must be used.
(**If space permits,** please skip steps 5 to 8, and go directly to step 9.)

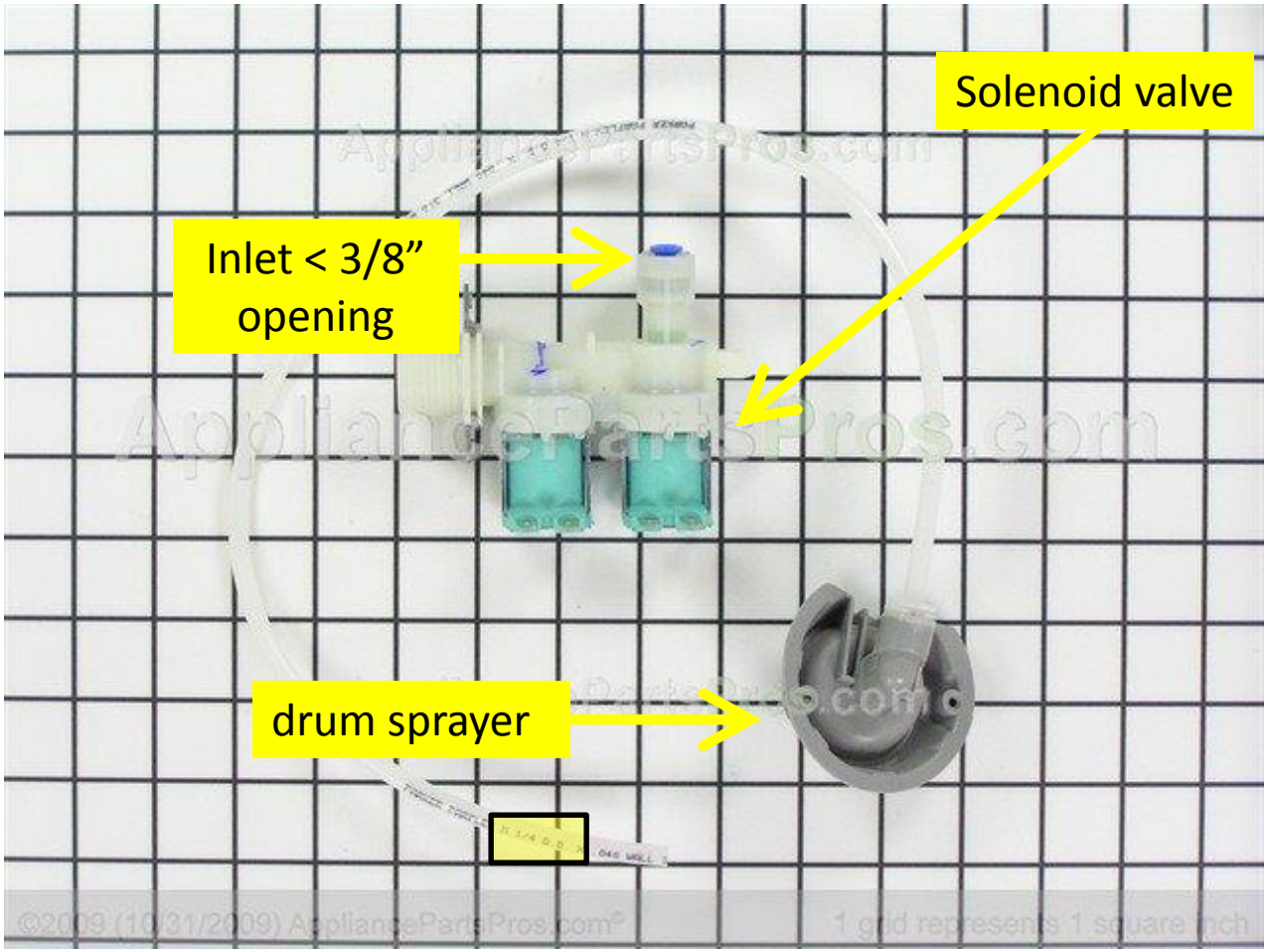



5. Attach the **short inlet hose (C)** to the cold water faucet. Screw on the coupling by hand until it is seated on the faucet.
6. Using the pliers, tighten the coupling with an additional two-thirds turn.
7. Attach the **Y connector (A)** to the brass male end of the small hose. Screw on the coupling by hand until it is seated on the connector.
8. Using the pliers, tighten the coupling with an additional two-thirds turn.
9. Attach the angled end of long hoses to the fill valve at the bottom of the dryer rear frame. Screw on the coupling by hand until it is seated on the fill valve connector.
10. Using pliers, tighten the coupling with an additional two-thirds turn.

11. Attach the **washer hose (D)** to the other side of the **Y connector (A)**. Screw on the hose coupling until it is tight. Using pliers, tighten the coupling with an additional two thirds turn.
12. Check that the water faucets are on.
13. Check for leaks around the Y connector, faucets and hoses.



# STEAM DRYERS



# STEAM DRYERS

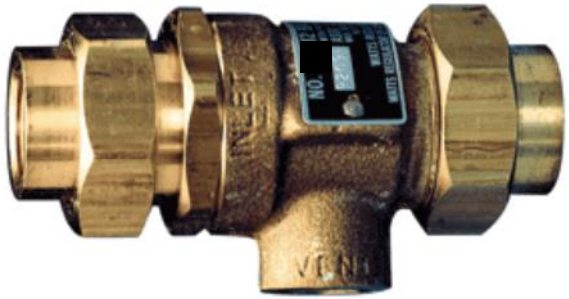
Acceptable cross connection control?

- Low Hazard
- Backpressure
- Continuous Pressure

Table 382.41–1
Acceptable Cross Connection Control Methods, Devices or Assemblies

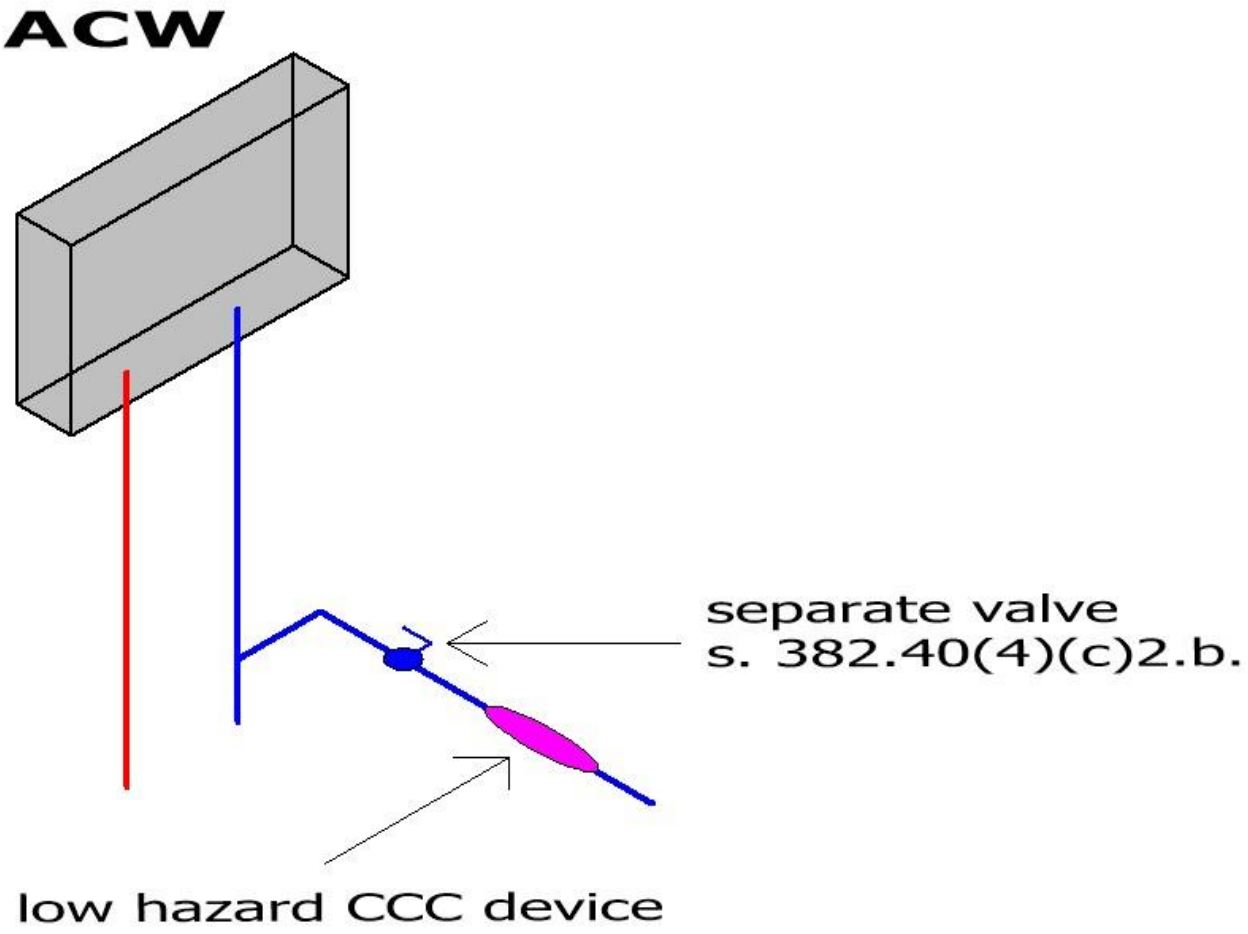
| Methods or Assemblies of Cross Connection Control (Standard) | Situations and Conditions | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | Backpressure | | | | Backsiphonage | | | |
| | Low Hazard | | High Hazard | | Low Hazard | | High Hazard | |
| | Continuous Pressure | Noncontinuous Pressure | Continuous Pressure | Noncontinuous Pressure | Continuous Pressure | Noncontinuous Pressure | Continuous Pressure | Noncontinuous Pressure |
| Air–gap Fittings for use with Plumbing Fixtures, Appliances, and Appurtenances (ASME A112.1.3) | | | | | X | X | X | X |
| Air Gaps (ASME A112.1.2) | X | X | X | X | X | X | X | X |
| Atmospheric Vacuum Breaker (CAN/CSA B64.1.1) | | | | | | X | | X |
| Backflow Preventers with Intermediate Atmospheric Vent (ASSE 1012) | X | X | | | X | X | | |
| Barometric Loops | | | | | X | X | X | X |
| Dual Check Valve Type with Atmospheric Port Backflow Preventer (CAN/CSA B64.3) | X | X | | | X | X | | |
| Hose Connection Backflow Preventers (ASSE 1052) | X[a] | X | X[a] | X | X[a] | X | X[a] | X |
| Hose Connection Vacuum Breakers (CAN/CSA B64.2 and B64.2.2) | X[a] | X | X[a] | X | X[a] | X | X[a] | X |
| Hose Connection Vacuum Breakers (ASSE 1011) | X[a] | X | X[a] | X | X[a] | X | X[a] | X |
| Pipe Applied Atmospheric Type Vacuum Breakers (ASSE 1001) | | | | | | X | | X |
| Pressure Vacuum Breaker Assembly (ASSE 1020) | | | | | X | X | X | X |
| Reduced Pressure Principle Backflow Preventers And Reduced Pressure Fire Protection Principle Backflow Preventers (ASSE 1013) | X | X | X | X | X | X | X | X |
| Reduced Pressure Principle Backflow Preventer (CAN/CSA B64.4) | X | X | X | X | X | X | X | X |
| Spill Resistant Vacuum Breaker (ASSE 1056 and CAN/CSA B64.1.3) | | | | | X | X | X | X |
| Vacuum Breaker (CAN/CSA B64.1.2) | | | | | X | X | X | X |

# STEAM DRYERS



ASSE 1012 would meet the conditions and be an acceptable form of cross connection control

# STEAM DRYERS



# STEAM DRYERS

## SPS 382.40(4)(c)2.b.

- *2.* Control valves shall be installed in water distribution systems serving one- and 2-family dwellings as specified in this subdivision.
- *b.* A control valve shall be installed in the supply piping to each water heater and water treatment device and in the fixture supply to each water closet, exterior hose bibb, plumbing appliance and piece of equipment. When the valve is an internal part of the water treatment device, the device shall be removable for service.

# STEAM DRYERS

## SPS 382.41(3)(b)4.a.

- *4.*Except as provided in subd. 5., a high hazard cross connection situation shall be considered to exist at:
- *a.* A water supply hose bibb, faucet, wall hydrant, sill cock or other outlet which terminates with hose threads allowing a hose to be attached

# STEAM DRYERS

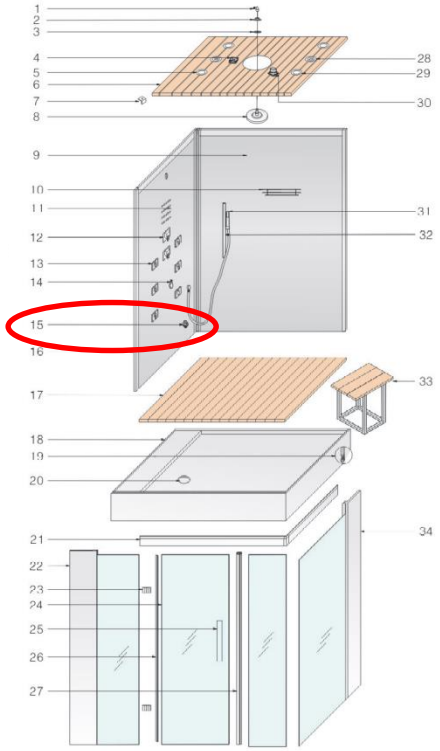
## SPS 382.41(3)(b)4.a.

- *5.* A cross connection shall not be considered to exist at the hose threaded outlet installed for the sole purpose of:
- *c.* Connecting individual residential automatic clothes washers.

# STEAM SHOWERS

# STEAM SHOWERS

## Parts instruction



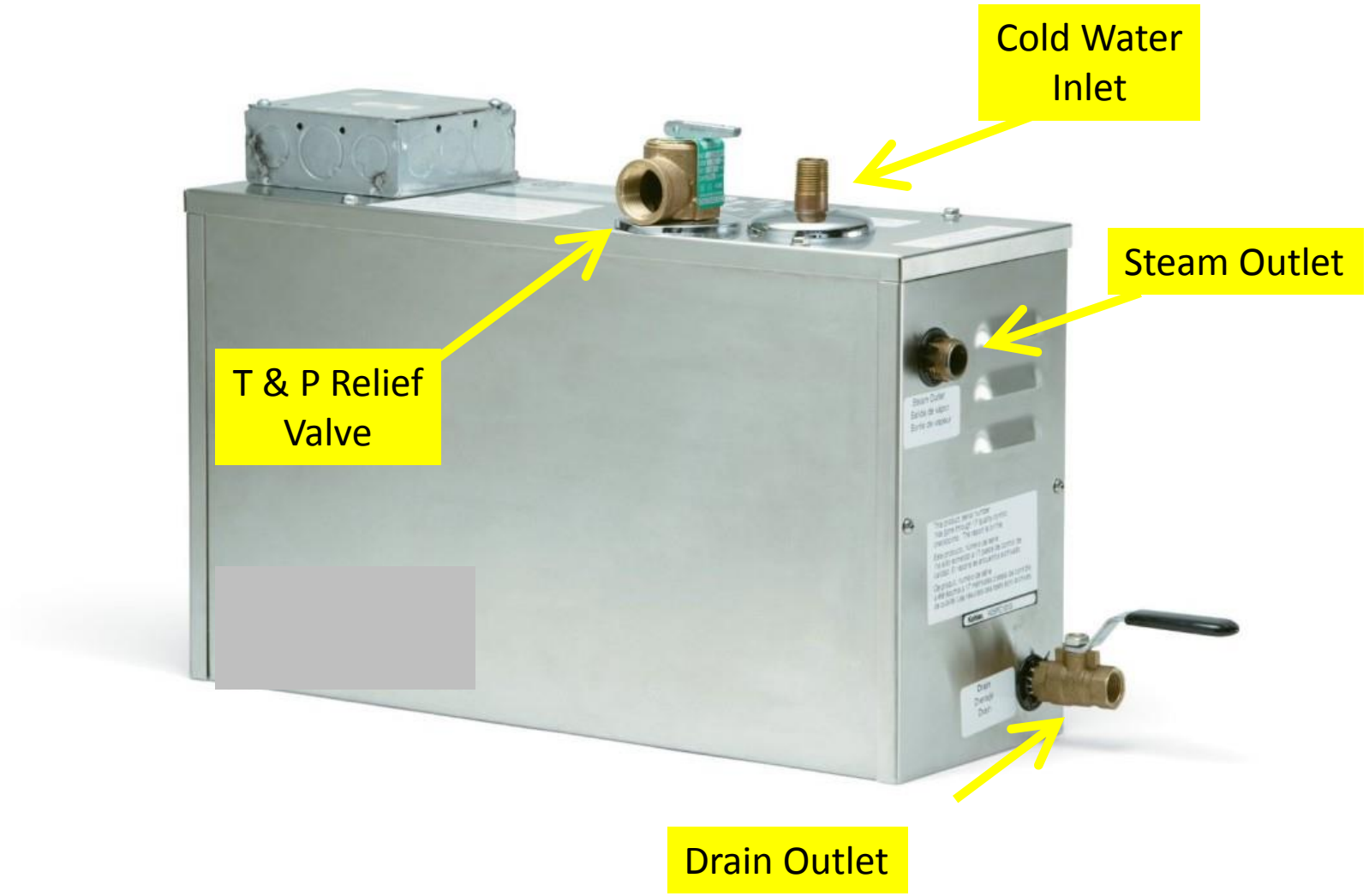

| 1、4"4 copper elbow | 2、1/2" copper nuts | 3、4mm plastic seal | 4、90X90 Ventilator |
|---|---|---|---|
|  |  |  |  |
| **5、Colorful light** | **6、Top cover** | **7、stainless steel block** | **8、Head shower** |
|  | |  |  |
| **9、back panel** | **10、Glass shelf** | **11、F8 computer control panel** | **12、Square 3 ways faucet** |
| |  |  |  |
| **13、Squre jet** | **14、cleaning cup** | **15、Steam mouth** | **16、Side back panel** |
|  |  |  | |
| **17、959 solid wood floor** | **18、shower base** | **19、Adjustable leg** | **20、Plastic drainer** |
| | |  |  |
| **21、fixed aluminum profile** | **22、left fixed door** | **23、Door hinge** | **24、movable door** |
| | |  | |

# STEAM SHOWERS

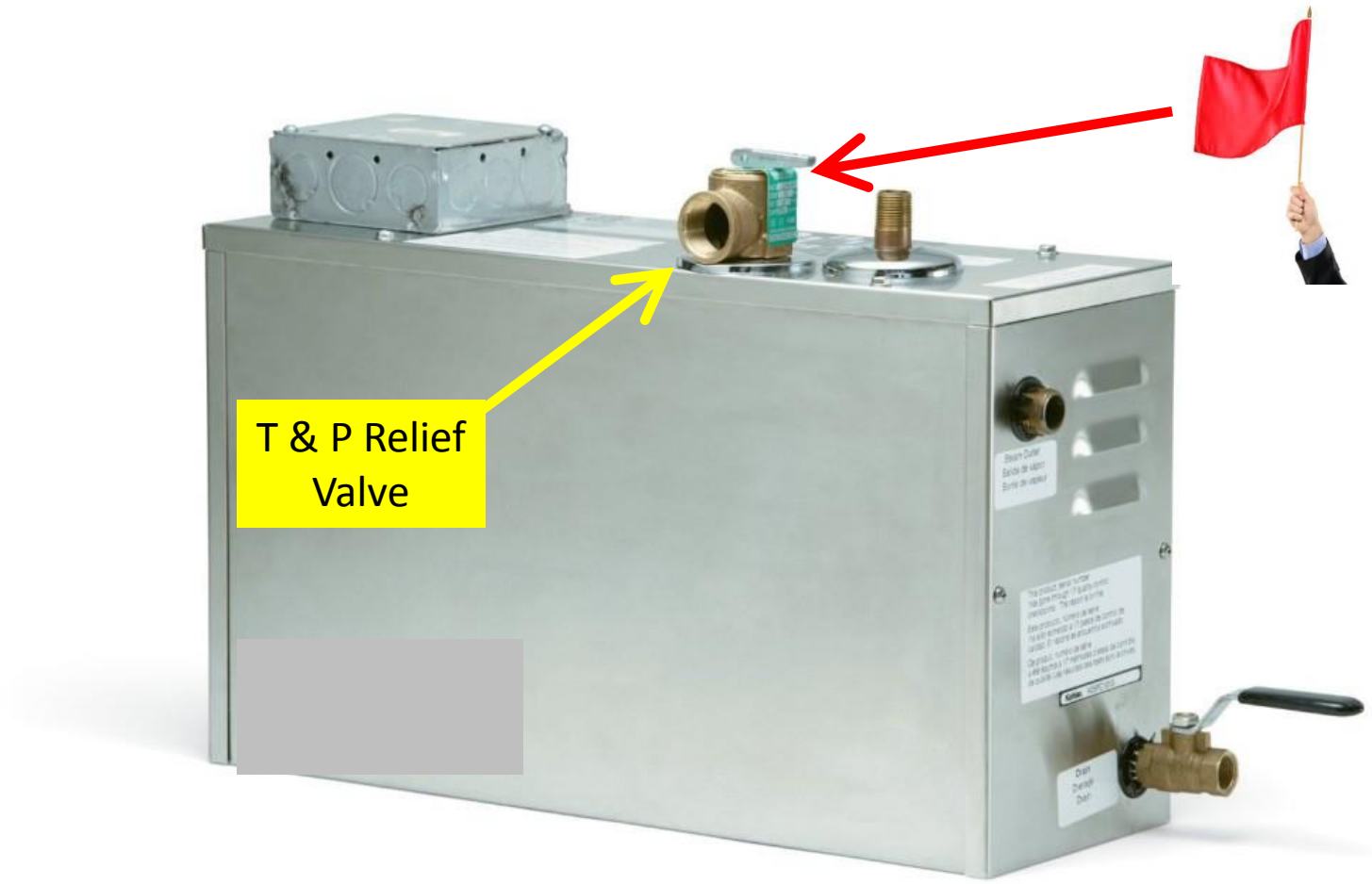
- Interconnection between water distribution and sanitary drain? Typically, the outlet of the steam pipe does not unveil any plumbing code issues. The outlet is above the flood level rim of the fixture.
- Material? Typically, shower steam generators are made of stainless steel. Does the distribution material meet code?

- Where is the cross connection control issue?

# STEAM SHOWERS



# STEAM SHOWERS



# STEAM SHOWERS

If a steam generator is equipped with a T & P relief valve (typically, they are), we would apply the same rules as we do with boilers/pressure vessels. There is a potential for backpressure to be created against the water distribution system.



# STEAM SHOWERS

Acceptable cross connection control?

- Low Hazard
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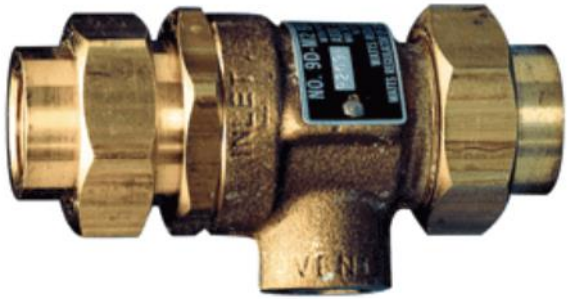
| Air Gaps (ASME A112.1.2) | X | X | X | X | X | X | X | X |
| Atmospheric Vacuum Breaker (CAN/CSA B64.1.1) | | | | | | X | | X |
| Backflow Preventers with Intermediate Atmospheric Vent (ASSE 1012) | X | X | | | X | X | | |
| Barometric Loops | | | | | X | X | X | X |
| Dual Check Valve Type with Atmospheric Port Backflow Preventer (CAN/CSA B64.3) | X | X | | | X | X | | |
| Hose Connection Backflow Preventers (ASSE 1052) | X[a] | X | X[a] | X | X[a] | X | X[a] | X |
| Hose Connection Vacuum Breakers (CAN/CSA B64.2 and B64.2.2) | X[a] | X | X[a] | X | X[a] | X | X[a] | X |
| Hose Connection Vacuum Breakers (ASSE 1011) | X[a] | X | X[a] | X | X[a] | X | X[a] | X |
| Pipe Applied Atmospheric Type Vacuum Breakers (ASSE 1001) | | | | | | X | | X |
| Pressure Vacuum Breaker Assembly (ASSE 1020) | | | | | X | X | X | X |
| Reduced Pressure Principle Backflow Preventers And Reduced Pressure Fire Protection Principle Backflow Preventers (ASSE 1013) | X | X | X | X | X | X | X | X |
| Reduced Pressure Principle Backflow Preventer (CAN/CSA B64.4) | X | X | X | X | X | X | X | X |
| Spill Resistant Vacuum Breaker (ASSE 1056 and CAN/CSA B64.1.3) | | | | | X | X | X | X |
| Vacuum Breaker (CAN/CSA B64.1.2) | | | | | X | X | X | X |

# STEAM SHOWERS



ASSE 1012 would meet the conditions and be an acceptable form of cross connection control

# STEAM SHOWERS

The installation of the T & P relief valve would have to meet all code criteria.

**SPS 382.33 (9)** INDIRECT WASTE PIPING REQUIRED.

(a) *Boilers, pressure tanks and relief valves.* Boilers, pressure tanks, relief valves and similar equipment discharging to a drain system shall be by means of an air−gap.

# STEAM SHOWERS

Other code requirements for T & P relief discharge piping.

- no shut off valve
- made of water distribution materials
- diameter not less than T & P relief valve
- not trapped
- drain by gravity to a floor served by a floor drain or a receptor
- terminate at least 6” above floor or receptor
- terminate within the same room or enclosure

# APPROVAL VERIFICATION

# HELP IS AT YOUR FINGERTIPS!!

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Three Park Avenue

New York, NY  10016−5990

Phone (212) 524−4990

asme.org

Canadian Standards Association International (CSA)

178 Rexdale Blvd.

Toronto, ON CANADA

Phone (800) 463−6727

csa−international.org

American Society of Sanitary Engineering (ASSE)

901 Canterbury, Suite A

Westlake, OH  44145−1166

Phone (440) 835−3040

asse−plumbing.org

IAPMO Research and Testing, Inc. (IAPMO)

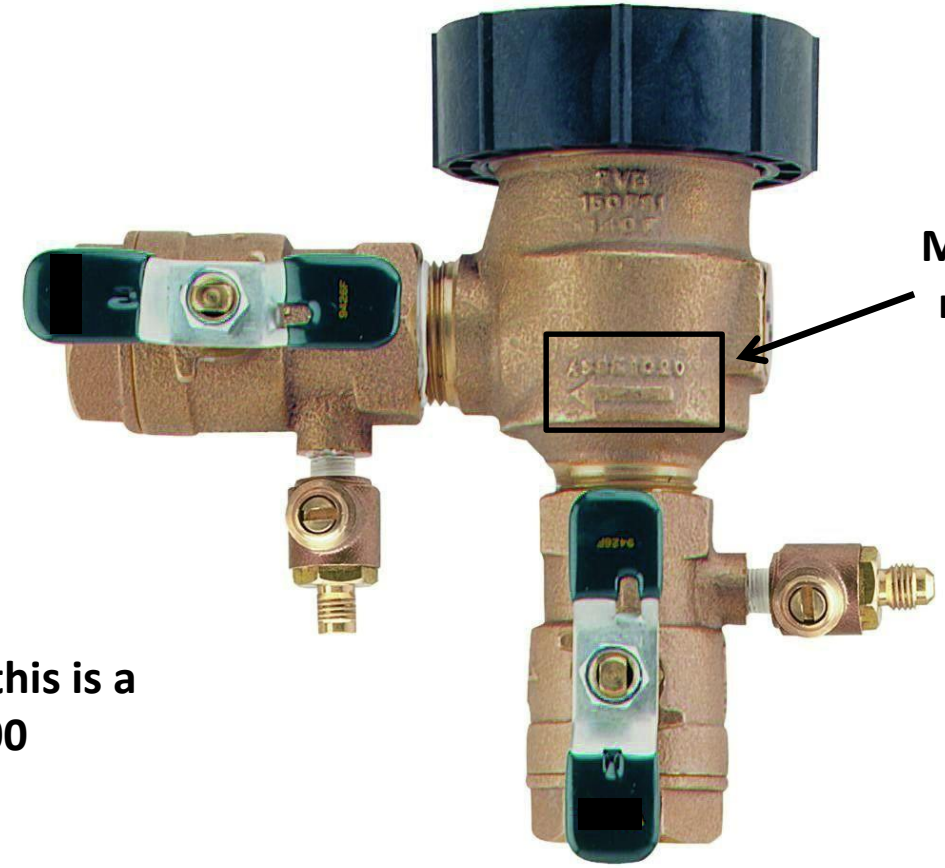
5001 E. Philadelphia St.

Ontario, CA  91761

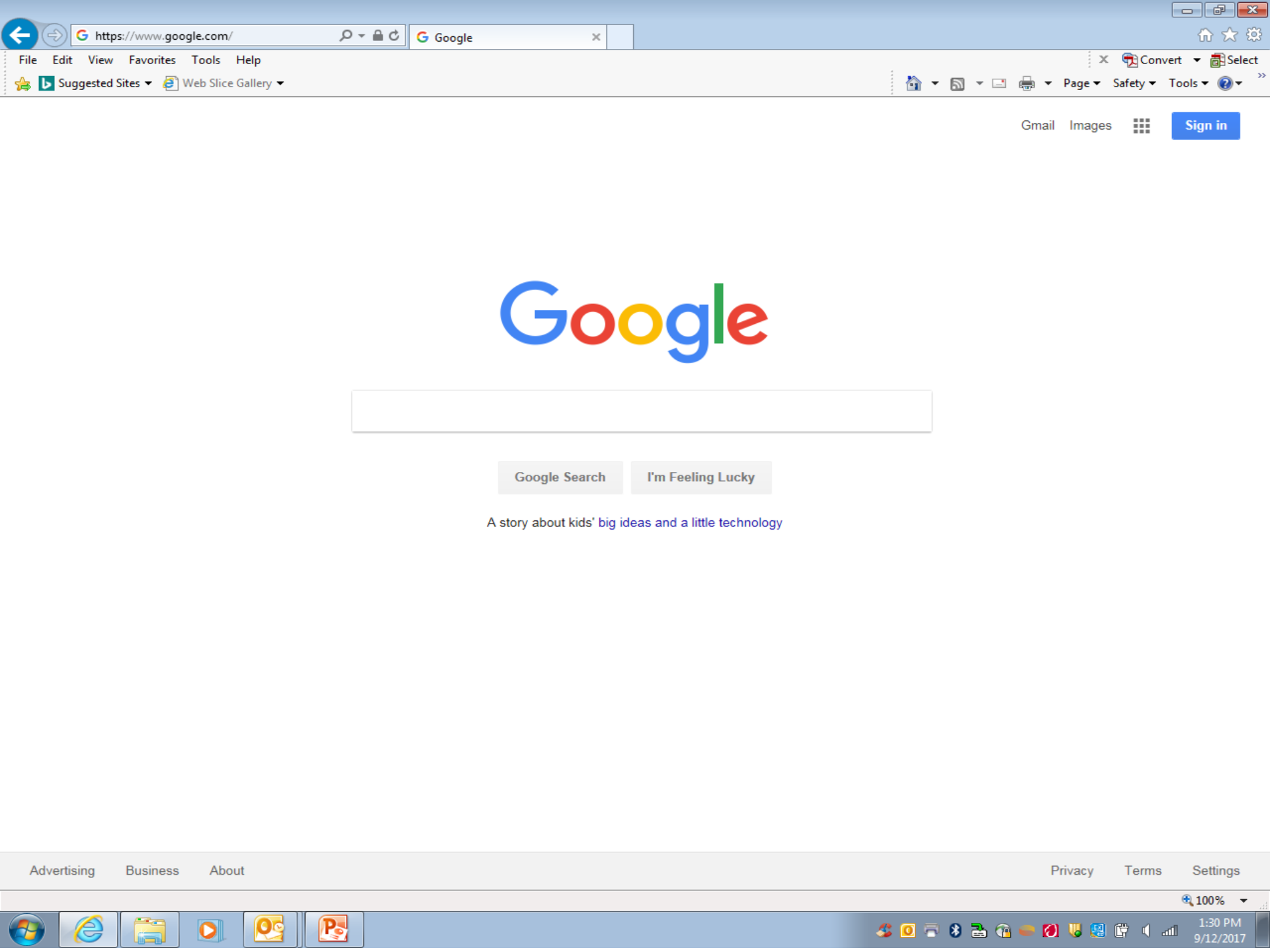
Phone (909) 472−4100

iapmo.org/Pages/IAPMOgroup.aspx

# IS THIS ACCEPTABLE??




**Let's pretend this is a Watts 800**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ASSE International's membership is a cross-section of the plumbing and mechanical industries, including contractors, engineers, manufacturers, inspectors, instructors, etc.

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The ASSE Seal gives inspectors, code officials, customers and users confidence in a product's performance within the plumbing system.

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ASSE International is a third-party certifier of piping trade professionals, providing individuals and local jurisdictions with nationally recognized certifications.

- ASSE approved schools
- ASSE certification list

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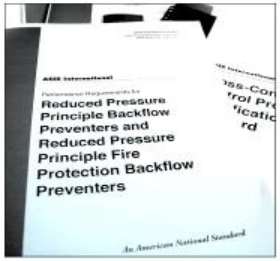


### Standards Program

ASSE International's product performance standards and professional qualifications standards are developed and revised under the ANSI accredited standards development process.

- Standards update chart

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# ASSE International

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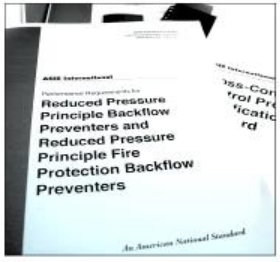


### Standards Program

ASSE International's product performance standards and professional qualifications standards are developed and revised under the ANSI accredited standards development process.

• Standards update chart

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# ASSE LISTED PRODUCTS

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**Product listings search:**

Search by standard, listee or model. Search

◉ Standard # ○ Listee/Manufacturer ○ Model

three options are available

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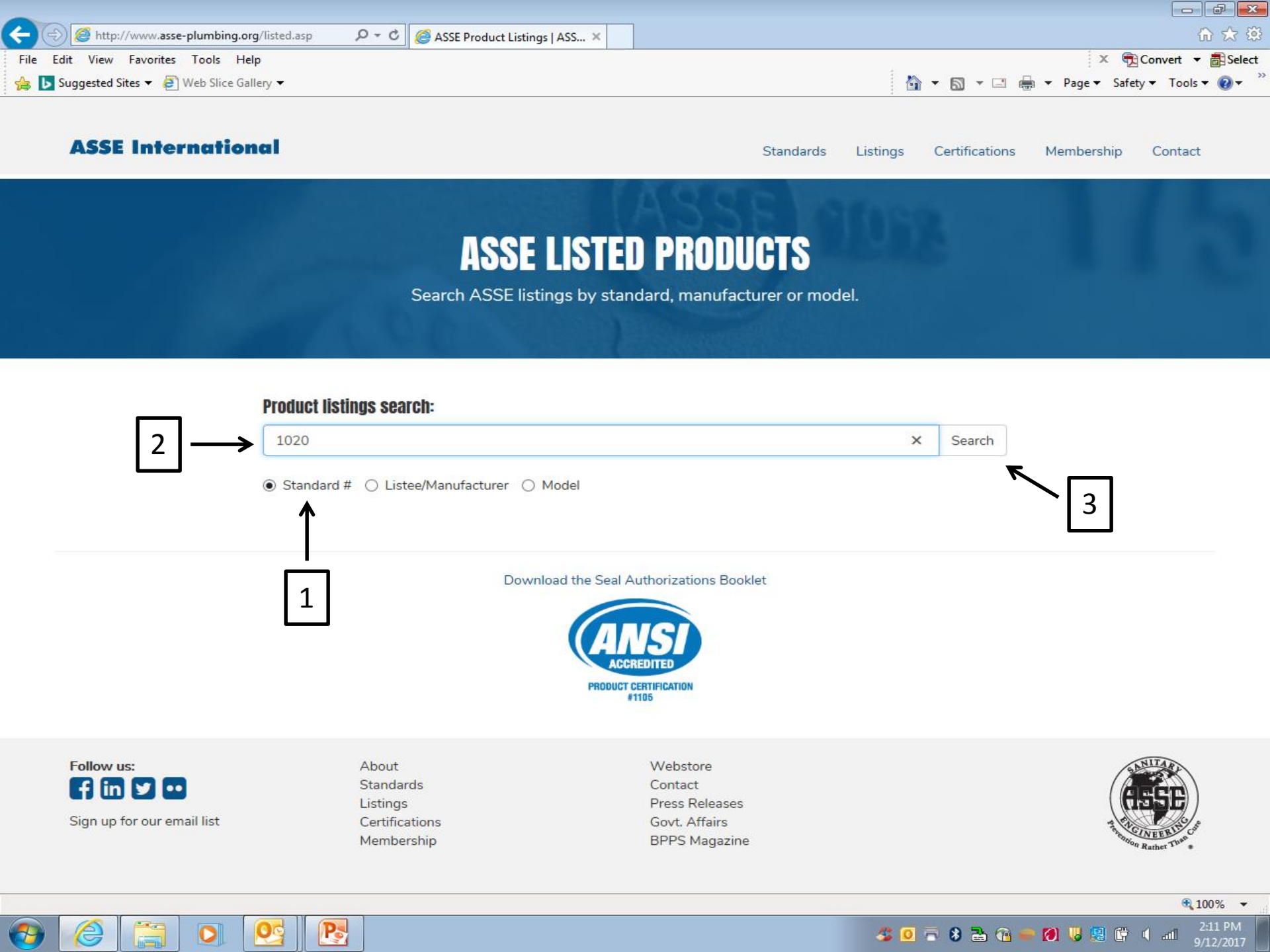
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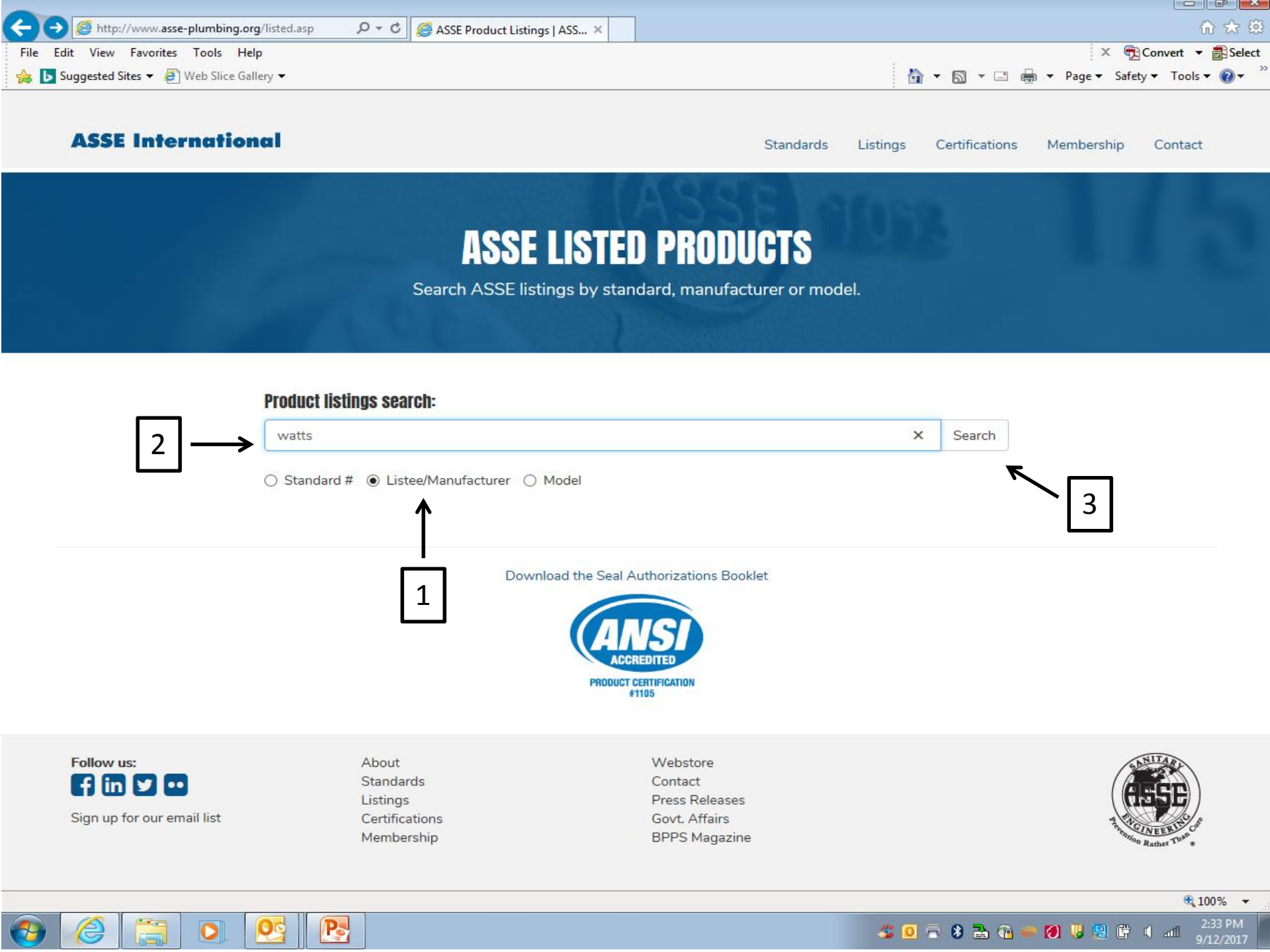
◉ Standard # ○ Listee/Manufacturer ○ Model

## Search results:

CSV Excel PDF Print

Search:

| Listee | Standard | Model | Size | Orientation | Description | Issue Date | Amended Date (s) |
|---|---|---|---|---|---|---|---|
| FEBCO | 1020-2004 | 765U | 1-1/4 inch | | w/Febco 622 BV-QT | 8/27/1981 | 3/4/2008<br>5/12/2011 |
| FEBCO | 1020-2004 | 765U | 2 inch | | w/Febco 622 BV-QT | 8/27/1981 | 3/4/2008<br>5/12/2011 |
| FEBCO | 1020-2004 | 765U | 3/4 inch | | w/Febco 622 BV-QT | 8/27/1981 | 3/4/2008<br>5/12/2011 |
| Toro Company | 1020-2004 | 53300 | | | | 10/1/1993 | 7/23/2007 |
| Watts Water Technology | 1020-2004 | (LF) 800M4QT | 1 1/2 inch | | w/ KeyGuard SOV, Watts FBV, FBV-E, LF-FBV & LF-FBV-E | 4/23/1984 | 6/1/1995<br>2/21/2006<br>4/4/2006<br>10/23/2008<br>3/29/2010 |
| Watts Water Technology | 1020-2004 | (LF) 800M4QT | 1 1/4 inch | | w/ KeyGuard SOV, Watts FBV, FBV-E, LF-FBV & LF-FBV-E | 5/27/2009 | 6/1/1995<br>2/21/2006<br>4/4/2006<br>10/23/2008<br>3/29/2010 |
| Watts Water Technology | 1020-2004 | (LF) 800M4QT | 1/2 inch | | w/ KeyGuard SOV, Watts FBV, FBV-E, LF-FBV & LF-FBV-E | 4/23/1984 | 6/1/1995<br>2/21/2006<br>4/4/2006<br>10/23/2008<br>3/29/2010 |
| Watts Water Technology | 1020-2004 | (LF) 800M4QT | 2 inch | | w/ KeyGuard SOV, Watts FBV, FBV-E, , LF-FBV & LF-FBV-E | 4/23/1984 | 6/1/1995<br>2/21/2006<br>4/4/2006<br>10/23/2008 |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## Product listings search:

watts Search

○ Standard # ◉ Listee/Manufacturer ○ Model

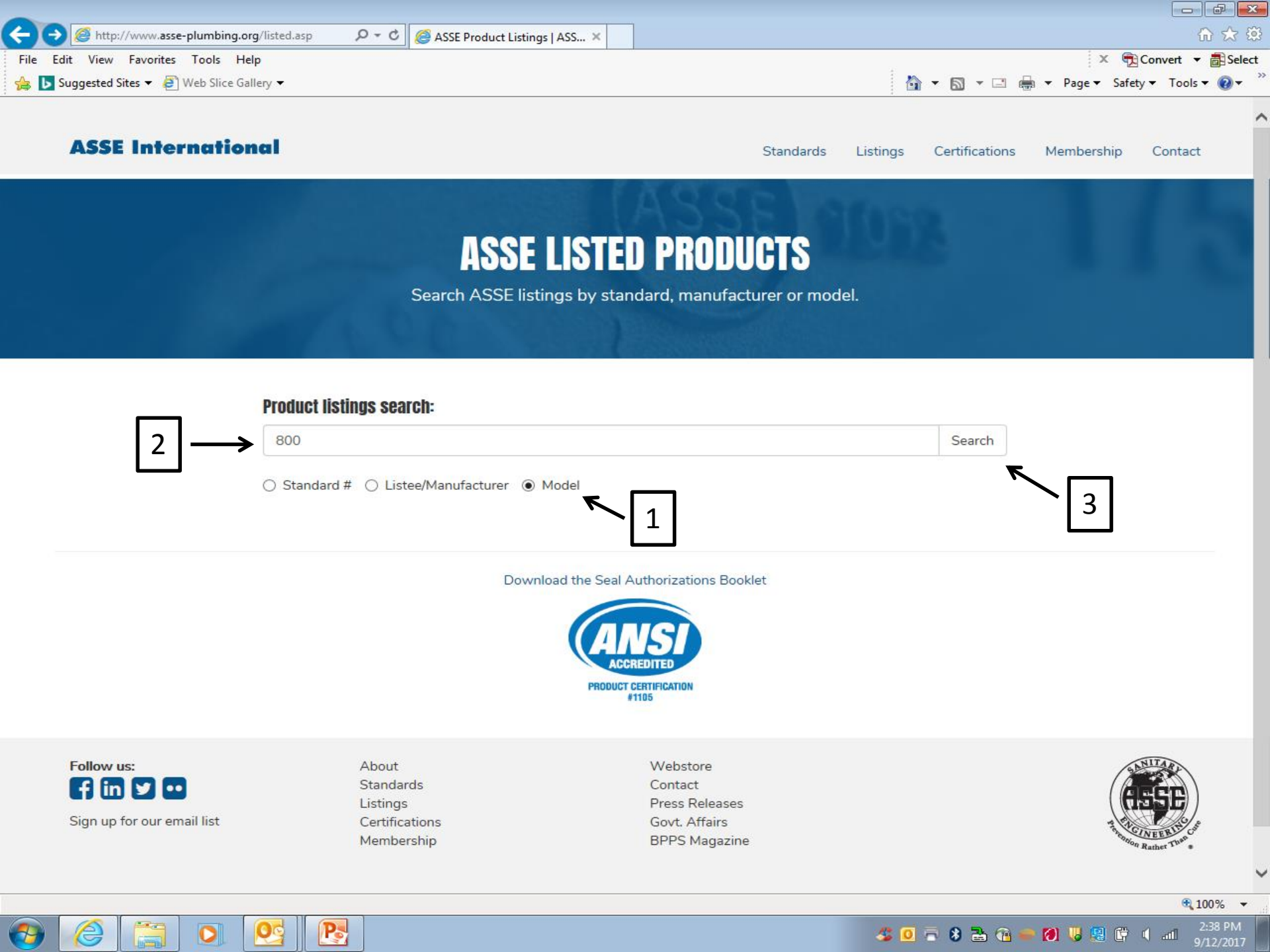
**this will list every approval of the manufacturer**

## Search results:

CSV Excel PDF Print

Search:

| Listee | Standard | Model | Size | Orientation | Description | Issue Date | Amended Date(s) |
|---|---|---|---|---|---|---|---|
| Watts Water Technology | 1001-2008 | (LF) 188A | 1 inch | | | 9/6/1965 | 12/29/2004 6/15/2009 |
| Watts Water Technology | 1001-2008 | (LF) 188A | 1-1/2 inch | | | 9/6/1965 | 12/29/2004 6/15/2009 |
| Watts Water Technology | 1001-2008 | (LF) 188A | 1-1/4 inch | | | 9/6/1965 | 12/29/2004 6/15/2009 |
| Watts Water Technology | 1001-2008 | (LF) 188A | 2 inch | | | 9/6/1965 | 12/29/2004 6/15/2009 |
| Watts Water Technology | 1001-2008 | (LF) 188A | 2-1/2 inch | | | 9/6/1965 | 12/29/2004 6/15/2009 |
| Watts Water Technology | 1001-2008 | (LF) 188A | 3 inch | | | 9/6/1965 | 12/29/2004 6/15/2009 |
| Watts Water Technology | 1001-2008 | (LF) 188A | 3/4 inch | | | 9/6/1965 | 12/29/2004 6/15/2009 |
| Watts Water Technology | 1001-2008 | (LF) 288A , 288AC & 288ASC | 1 inch | | | 9/6/1965 | 12/29/2004 6/15/2009 |
| Watts Water Technology | 1001-2008 | (LF) 288A , 288AC & 288ASC | 1/2 inch | | | 9/6/1965 | 12/29/2004 6/15/2009 |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| Listee | Standard | Model | Size | Orientation | Description | Issue Date | Amended Date(s) |
|---|---|---|---|---|---|---|---|
| Axent Corporation Ltd. | 1002-2008 | B3800 & B3800E | 15/16 inch | | Adjustable shank | 2/6/2001 | 12/20/2004 |
| Axent Corporation Ltd. | 1003-2009 | B3800L | 15/16 inch | | | 5/21/2014 | |
| Gerber Plumbing Fixtures | 1019-2011 | 49-800 Series | | | P | 10/24/2001 | 2/10/2010 |
| Guardian Equipment | 1071-2012 | G3800 & G3800-LF | 1" inlet x 1 1/4" outlet | | Lead content is less than or equal to 0.25% on model G3800-LF | 3/11/2009 | 6/29/2012 |
| Legend | 1003-2009 | T6800 | 1" | | with 1" inlet x 1" outlet | 4/28/2005 | 8/19/2010 |
| Legend | 1003-2009 | T6800 | 1/2" | | with 1/2" inlet x 1/2" outlet | 4/28/2005 | 8/19/2010 |
| Legend | 1016-2005 | T6800 | 3/4" | | with 3/4" union with 3/4" NPT inlet and 3/4" NPT outlet | 4/28/2005 | 8/19/2010 |
| Leonard Valve | 1071-2012 | TM-800-LF & TM-850-LF w/ safety device | 1" inlet x 1 1/4" outlet | | Lead content is less than or equal to 0.25% on model TM-800-LF and TM-850-LF | 3/24/2009 | 6/14/2010 6/20/2012 6/1/2015 |
| MIFAB, Inc. | 1020-2004 | Series HY-8000/MHY-8000 | 24 inches | | 3/4" GHT outlet x 1/2" sweat, 1/2" NPT inlet combination - series includes HY & MHY-8004,8006,8008,8010, 8012,8014,8016,8018,8020,8022,8024 | 3/14/2005 | 8/15/2012 |
| Pops Technologies LLC | 1060-2006 | 8007 (Quarter Turn Sink Dispenser) | | | 3/4" NPHS Inlet, 1/4" Chemical Supply Barb Fitting, 1/2" Barb fitting outlet | 12/1/2009 | 3/16/2010 12/8/2010 |

**this will find any model numbers containing “800”**

Showing 1 to 10 of 28 entries

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